8.7: LV contactor gear

Plant item: LV contactor gear Identification/location: Contractor: Manufacturer: Serial No:	Completed	
	Incomplete	
	Pc address - file	

No	Activity	Witnessed		Date
		Engineer (HCP)	Contractor	
1	Check all components fitted to general assembly drawing.			
2	Check tightness of all fastenings.			
3	Check labelling and warning symbols to relevant diagram.			
4	Check earth connection to main earth system.			
5	Check all flash guards and contacts aligned.			
6	Check mechanical operation and interlocks.			
7	*IR check 415V circuit using megger.			
	R-Y / R-B / Y-B R-E / B-E / B-E			
	*Short circuit/disconnect all electronic equipment which could be damaged before megger testing.			
8	D.c. operated contactors – check that contactor operates at: (i) 80% of rated voltage (close); (ii) 50% of rated voltage (trip).			
9	A.c. operated contactors – check that contactor operates at: (i) 85% of rated voltage and remains closed down to 75% of rated voltage.			
10	Operate contactor five times at normal operating voltage.			
11	Check current ratings of all fuselinks.			

Witnessed	Engineer(HCP)	Contractor	Date	Sheet 1 of 1
Print name and sign				

8.8: Motor thermal overload device: overload injection

Plant item: Motor thermal overload device: overload injection		Completed	
Identification/location:		Incomplete	
Contractor: Manufacturer: Serial No:		Pc address - file	

No	Activity	Witnessed		Date
		Engineer (HCP)	Contractor	
	Relay data Type…….. Serial no……... Element fitted…….. Circuit FLC…… CT ratio……. CT tapping…… Trip level setting……. Phases…….. Note: trip level setting will normally be circuit or motor full load current (FLC).			
1	With all three phases connected in series, check starting curve (cold), measure time to trip at three times FLC. Time from curve…… sec. Time measured…… sec. Time measured to be within…..% of optimum characteristic.			
2	Reduce current to zero and ensure that relay will reset when cold.			
3	Single phasing check: maintain at circuit FLC and allow relay to reach a stable state. Inject 2.5 times FLC level setting through left and centre elements in series. Repeat through centre and right elements in series. Measure times to trip. LH and centre…….. sec. RH and centre…….. sec. Time measured to be within……% of manufacturer's specified time.			
4	Stability check: carry out stability test at FLC level setting for 15 minutes. All temporary connections and shorts removed on completion.			

Witnessed	Engineer(HCP)	Contractor	Date	Sheet 1 of 1
Print name and sign				